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**ABSTRACT**

A method for controlling temperature-related transmissions in radiocommunication systems. A mobile station includes a measuring device for determining operating temperature. When the measured temperature exceeds a predetermined threshold temperature, the mobile station can reduce its transmission rate, thereby reducing power dissipation within the device. The mobile station informs the system of the rate reduction, whereby the system can reallocate released resources, e.g., timeslots and/or spreading codes. The mobile station can also inform the user of the change in transmission rates and/or the temperature of the mobile station, whereupon the user can move to a better transmitting location. The mobile station can also take into account the transmit status of the current connection in determining when to reduce the transmission rate.